

PATENT Docket No.: 201040/1020

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner: Applicant(s): Alam et al. H. Schnizer Serial No. 09/455,978 Art Unit: Cnfrm. No. 5811 1653 Filed December 6, 1999 For HEME PROTEINS HEMAT-HS AND HEMAT-BS AND THEIR USE IN MEDICINE AND MICROSENSORS

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents

Washington, D.C. 20231

Box: Sequence

Dear Sir:

Please amend the above-identified patent application as follows:

In the Specification:

Please delete the paragraph extending from page 20, line 19 to page 21, line 4,

and replace it with the following paragraph:



The HtrVIII is a positive aerotaxis transducer in H. salinarum (Brooun et al., J. Bacteriol., 180:1642-1646 (1998), which is hereby incorporated by reference). A strain deleted for the htrVIII gene lacks positive aerotaxis while a strain overproducing the protein shows an enhanced aerotactic response. To investigate the possible role of HemAT-Hs and HemAT-Bs in aerotaxis, deletion mutants of these genes were constructed (Brooun, Ph.D. thesis. University of Hawaii, Hawaii (1997), which is hereby incorporated by reference) for the construction of hemAT-Hs deletion strains. Construction of overexpression of hemAT-Hs in H. salinarum: NdeI and XbaI restriction sites were used to clone the hemAT-Hs gene into the E. coli-H. salinarum shuttle vector pKJ427. Top primer with NdeI cutting site

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